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10/813,077	03/31/2004	Makiko Tango	325772035200	5279
7590	04/05/2006			EXAMINER VERBITSKY, GAIL KAPLAN
Barry E. Bretschneider Morrison & Foerster LLP Suite 300 1650 Tysons Boulevard McLean, VA 22102			ART UNIT 2859	PAPER NUMBER
DATE MAILED: 04/05/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/813,077	TANGO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Gail Verbitsky	2859	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 19 January 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-26 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-23, 25 and 26 <sup>24</sup> is/are rejected. *an*  
 7) Claim(s) 1 is/are objected to. *an*  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Objections***

1. Claim 24 is finally objected to because of the following informalities: Perhaps applicant should introduce definition of the "specific component" in the specification order to maintain consistency in the terminology throughout the claims and specification.
2. Claim 20: "plurality of components comprising..." has not been described in the specification. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claim 24 is finally rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In this case, the claim language is confusing because, according to the claims (20, 24) only one (specific) component out of the plurality of components makes an image. Therefore, since every component is a combination of a developing device, a photosensitive image carrier and a rotary brush, then, not a developer, as stated in the specification, but a combination of a developing device, a photosensitive image carrier and a rotary brush makes an image, and this limitation has not been described in the specification. Furthermore, please note, that in the rejection on the merits, the Examiner considers that a specific component is a developer/developers, as stated in the specification.

***Drawings***

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "plurality of components" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-5, 7, 9-15, 18-19 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Shimuzi et al. (U.S. 20020181965) [hereinafter Shimuzi] in view of Okano et al. (U.S. 20040022558).

Shimuzi discloses in Fig. 1 an image forming apparatus comprising a rotary member 1 capable of carrying an image recording material on its surface, a rotary brush 2-A which contacts (rubs and slides) on the surface of the rotary member 1, wherein, during a pre-process step, so-called preliminary (prescribed) multi-rotation or warming up rotation, the brush 2-A is passively rotated by the member 1 (paragraph [0079]) different from the normal image forming operation (active rotation). This would imply, that the number of the passive rotations is finite, and thus, does not exceed a predetermined/ prescribed number before the first mode is executed. The brush is driven by the member 1 during the passive rotations. A bias current/ voltage is applied to either the brush or to the member 1. There is, inherently, some controlling device/ controller to control the brush rotation.

Claims 4, 7: The brush 2-A is a charging member which charges the member 1 when in a charging position, wherein when in active rotation (image formation/ first mode), the peripheral velocity of the rotary brush 2-A is different relative to the member 1 (abstract).

Claim 5: the member 1 is a photosensitive image carrier (page 9, claim 8).

Shimuzi teaches a nip C (n) in paragraph [0019].

Shimizu does not explicitly teach the particular amount or push  $p$  (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip  $n$ , as stated in claims 1, 9, with the remaining limitations of claims 1-5, 7, 9-15, 18-19.

Okano discloses a device in the field of applicant's endeavor. Okano discloses all the subject matter including the amount of nip within a range of 2-4 mm (greater or equal to 2 mm and less than 10 mm), and push-in is selected as 0.1 (equal to) or greater. In order to push-in satisfy the formula of paragraph [0141] of Okano, the push-in can be within a range of 0.1 to 0.4 mm (greater or equal to 0.1 mm and less than 2 mm). The push-in amount also dependent on the outer diameter of the charging roller.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Shimuzi, so as to have the amount of nip and push-in, in the ranges suggested and calculated by Okano, so as to have the push-in and nip amounts corresponding to the diameter of the roller, as already suggested by Okano.

With respect to the particular amount or push  $p$  (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip  $n$ , as stated in claims 1, 9, absent any criticality, is only considered to be the "optimum" amount/ range of the push and nip used by Shimuzi that a person having ordinary skill in the art at the time the invention was made would have been able to determine using routine experimentation based, among other things, on the type of the brush and the required quality, etc. See *In re Boesch*, 205 USPQ 215 (CCPA 1980).

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6. Claims 1, 4-5, 8-9, 12-13, 16, 18-19 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Ishiguro et al. (U.S. 5671476) [hereinafter Ishiguro] in view of Okano.

Ishiguro discloses in Fig. 2 an image forming apparatus comprising a photosensitive rotating drum (rotary member) 2, a rotary cleaning brush 54 is rotationally driven by the drum (col. 4, lines 60-65) (passive mode) or rotated by a charge (col. 5, lines 38-65) (active mode). A pressure/ push p and a nip width n are chosen such that the brush only cleans the dust and not the image (col. 4, lines 66-68, col. 5, lines 1-37). The peripheral velocity of the brush is different from the peripheral velocity of the drum during the active/ first mode (cols. 7-8). Cleaning voltage is applied to the cleaning brush. There is, inherently, some controlling device/ controller to control the brush rotation. There is only a specific component 2 makes images, while the other components device do not make images.

Ishiguro does not explicitly teach the particular amount or push **p** (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip **n**, as stated in claims, and active/ passive rotations.

Okano discloses a device in the field of applicant's endeavor. Okano discloses all the subject matter including the amount of nip within a range of 2-4 mm (greater or equal to 2 mm and less than 10 mm), and push-in is selected as 0.1 (equal to) or greater. In order to push-in satisfy the formula of paragraph [0141] of Okano, the push-in can be within a range of 0.1 to 0.4 mm (greater or equal to 0.1 mm and less than 2 mm). The push-in amount also dependent on the outer diameter of the charging roller.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Ishiguro, so as to have the amount of nip and push-in, in the ranges suggested and calculated by Okano, so as to have the push-in and nip amounts corresponding to the diameter of the roller, as already suggested by Okano.

With respect to the particular amount or push  $p$  (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip  $n$ , as stated in claims 1, 9, absent any criticality, is only considered to be the "optimum" amount/ range of the push and nip used by Ishiguro that a person having ordinary skill in the art at the time the invention was made would have been able to determine using routine experimentation based, among other things, on the type of the brush and the required quality, etc. See In re Boesch, 205 USPQ 215 (CCPA 1980).

7. Claims 1, 6, 8-9, 14, 16, 18 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Shinohara (U.S. 6470154) in view of Okano.

Shinohara discloses in Fig. 2 an image forming device comprising an intermediate transfer member (rotary member) 9, a rotary cleaning brush 39 which rubs and slides on a surface of the rotary member wherein, the rotary cleaning brush 39 is being controlled by a motor 41. In addition, the brush 39 is operated during a first/ active mode when it is spaced from the rotary member 9, and during a second (passive) mode when the brush 39 is bearing against the rotary member 9 and rolls with the rotary member (driven by rotary member) 9 (cols. 4-5). There is a mechanism for pushing the brush toward and spacing from the rotary member 9 (col. 5, line 14). This would imply

that the mechanism pushes the brush in at some depth (amount of push)  $p$ . There is, inherently, some controlling device/ controller to control the brush rotation.

Shinohara does not explicitly teach the particular amount or push  $p$  (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip  $n$ , as stated in claims.

Okano discloses a device in the field of applicant's endeavor. Okano discloses all the subject matter including the amount of nip within a range of 2-4 mm (greater or equal to 2 mm and less than 10 mm), and push-in is selected as 0.1 (equal to) or greater. In order to push-in satisfy the formula of paragraph [0141] of Okano, the push-in can be within a range of 0.1 to 0.4 mm (greater or equal to 0.1 mm and less than 2 mm). The push-in amount also dependent on the outer diameter of the charging roller.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Shinohara, so as to have the amount of nip and push-in, in the ranges suggested and calculated by Okano, so as to have the push-in and nip amounts corresponding to the diameter of the roller, as already suggested by Okano.

With respect to the particular amount or push  $p$  (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip  $n$ , as stated in claims 1, 9, absent any criticality, is only considered to be the "optimum" amount/ range of the push and nip used by Shinohara that a person having ordinary skill in the art at the time the invention was made would have been able to determine using routine

experimentation based, among other things, on the type of the brush and the required quality, etc. See In re Boesch, 205 USPQ 215 (CCPA 1980).

8. Claims 1-3, 5, 8-11, 13, 15-16, 18-19 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Yasui et al. (U.S. 5845174) [hereinafter Yasui] in view of Okano.

Yasui discloses in Fig. 1, 10 an image-forming device comprising a plurality of developing devices 208, a plurality of rotary clean brushes 235 to rub and slide over (clean) a transfer drum/ photosensitive image carrier (rotary member) 202. The device further comprising a controller (CPU) 60 controlling the brushes' rotational operations. Also, Yasui teaches to control nips of the brush to a desired nip size, and a pressure (push p) is controlled by a cam drive circuit 62. The brushes rotate for a first mode/ active rotation/ non-contact and a second mode/ passive rotation/ contact, as described in cols. 6-8. A power supply applies a voltage bias to provide a necessary pressure (push) at least during the contact rotation. There is, inherently, some controlling device/ controller to control the brush rotation. There is only a specific component (photosensitive drum) 202 makes images, while the other components device do not make images.

It is inherent, that the cumulative number of rotations of the rotary brushes in the first mode is executed before the number of rotations of the rotary brushes in the second mode exceeds a prescribed/ desired number of rotations, in order the device to operate properly and according to a desired program.

Yasui does not explicitly teach the particular amount or push **p** (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip **n**, as stated in claims 1, 9, and 18. Yasui does not teach that the brushes are charging brushes as stated in claims 7, 15.

Okano discloses a device in the field of applicant's endeavor. Okano discloses all the subject matter including the amount of nip within a range of 2-4 mm (greater or equal to 2 mm and less than 10 mm), and push-in is selected as 0.1 (equal to) or greater. In order to push-in satisfy the formula of paragraph [0141] of Okano, the push-in can be within a range of 0.1 to 0.4 mm (greater or equal to 0.1 mm and less than 2 mm). The push-in amount also dependent on the outer diameter of the charging roller.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Yasui, so as to have the amount of nip and push-in, in the ranges suggested and calculated by Okano, so as to have the push-in and nip amounts corresponding to the diameter of the roller, as already suggested by Okano.

With respect to the particular amount or push **p** (pressure) of the rotary brush against the rotary member, as stated in claim 1, and the particular nip **n**, as stated in claims 1, 9, 18, absent any criticality, is only considered to be the "optimum" amount/range of the push and nip used by Yasui that a person having ordinary skill in the art at the time the invention was made would have been able to determine using routine experimentation based, among other things, on the type of the brush and the required quality, etc. See In re Boesch, 205 USPQ 215 (CCPA 1980).

9. Claims 17, 20-21, 24, 26 (as best understood by the Examiner) are finally rejected under 35 U.S.C. 103(a) as being unpatentable by Yasui et al. (U.S. 5845174) [hereinafter Yasui] in view of Boomgaarden et al. (U.S. 20040045581A1) [hereinafter Boomgaarden].

Yasui discloses in Fig. 1, 10 an image-forming device comprising a plurality of components each providing a developing device(s) 208, a rotary clean brush(s) 235 to rub and slide over (clean) a photosensitive image drum (rotary member/ image carrier) 206. The device further comprising a controller (CPU) 60 controlling the brushes' rotational operations. Also, Yasui teaches to control nips of the brush to a desired nip size, and a pressure (push p) is controlled by a cam drive circuit 62. The brushes rotate for a first mode/ active rotation/ non-contact and a second mode/ passive rotation/ contact, as described in cols. 6-8. A power supply applies a voltage bias to provide a necessary pressure (push) at least during the contact rotation. There is, inherently, some controlling device/ controller to control the brush rotation. There is only a specific component (developers) 208 among the plural components makes images, while the other components device do not make images.

It is inherent, that the cumulative number of rotations of the rotary brushes in the first mode is executed before the number of rotations of the rotary brushes in the second mode exceeds a prescribed/ desired number of rotations, in order the device to operate properly and according to a desired program.

Although Yasui discloses a controller to control the brushes' rotational operations, Yasui does not teach to count a number of rotations of the rotary brush.

Boomgaarden discloses a device in the field of applicant's endeavor wherein, a controller comprising an input setting for controlling brush rotation rate. This would imply, that the brush rotation rate, (and thus, number of rotation related to the rotation rate by time) should be determined/ calculated/ counted/ measured. Therefore, the controller is also acting as a rotation/ rotation rate counter.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the controller, disclosed by Yasui, so as to make it also calculate the rotation rate (number of rotations per time unit), as taught by Boomgaarden, in order to adjust the brush for wear and preserve its life, as already suggested by Boomgaarden.

10. Claims 1-5, 7, 18 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Shimuzi et al. (U.S. 20020181965) [hereinafter Shimuzi] in view of Natakeyama (U.S. 6915093).

Shimuzi discloses in Fig. 1 an image forming apparatus comprising a rotary member 1 capable of carrying an image recording material on its surface, a rotary brush 2-A which contacts (rubs and slides) on the surface of the rotary member 1, wherein, during a pre-process step, so-called preliminary (prescribed) multi-rotation or warming up rotation, the brush 2-A is passively rotated by the member 1 (paragraph [0079]) different from the normal image forming operation (active rotation). This would imply, that the number of the passive rotations is finite, and thus, does not exceed a predetermined/ prescribed number before the first mode is executed. The brush is driven by the member 1 during the passive rotations. A bias current/ voltage is applied

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to either the brush or to the member 1. There is, inherently, some controlling device/controller to control the brush rotation.

Claims 4, 7: The brush 2-A is a charging member which charges the member 1 when in a charging position, wherein when in active rotation (image formation/ first mode), the peripheral velocity of the rotary brush 2-A is different relative to the member 1 (abstract).

Claim 5: the member 1 is a photosensitive image carrier (page 9, claim 8).

Shimuzi teaches a nip C (n) in paragraph [0019].

Shimizu does not explicitly teach the particular amount or push **p** (pressure) of the rotary brush against the rotary member, as stated in claim 1,

Natakeyama discloses a device in the field of applicant's endeavor wherein a charge brush roller 2 is pushed in a rotary photosensitive body (image carrier 1 by push-in amount of 0.2 mm to 2 mm so as to secure a better charging property.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Yasui, so as to have the amount of push-in, in the ranges suggested by Natakeyama, so as to have the push-in and nip amounts corresponding to the diameter of the roller, so as to secure a better charging property.

11. Claim 22 is finally rejected under 35 U.S.C. 103(a) as being unpatentable over Yasui and Boomgaarden as applied to claims 17, 20-21, 26 above, and further in view of Natakeyama.

Yasui and Boomgaarden disclose the device as stated above.

They do not explicitly teach the limitations of claim 22.

Natakeyama discloses a device in the field of applicant's endeavor wherein a charge brush roller 2 is pushed in a rotary photosensitive body (image carrier 1 by push-in amount of 0.2 mm to 2 mm so as to secure a better charging property.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Yasui, so as to have the amount of push-in, in the ranges suggested by Natakeyama, so as to have the push-in and nip amounts corresponding to the diameter of the roller, so as to secure a better charging property.

12. Claims 22-23 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Yasui and Boomgaarden as applied to claims 17, 20-21, 26 above, and further in view of Okano.

Yasui and Boomgaarden disclose the device as stated above.

They do not explicitly teach the limitations of claims 22-23.

Okano discloses a device in the field of applicant's endeavor. Okano discloses all the subject matter including the amount of nip within a range of 2-4 mm (greater or equal to 2 mm and less than 10 mm), and push-in is selected as 0.1 (equal to) or greater. In order to push-in satisfy the formula of paragraph [0141] of Okano, the push-in can be within a range of 0.1 to 0.4 mm (greater or equal to 0.1 mm and less than 2 mm). The push-in amount also dependent on the outer diameter of the charging roller.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device, disclosed by Yasui, so as to have the

amount of nip and push-in, in the ranges suggested and calculated by Okano, so as to have the push-in and nip amounts corresponding to the diameter of the roller, as already suggested by Okano.

13. Claims 20 and 25 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Shinohara in view of Boomgaarden.

Shinohara discloses in Fig. 2 an image forming device comprising an intermediate transfer member (rotary member) 9, a rotary cleaning brush 39 which rubs and slides on a surface of the rotary member wherein, the rotary cleaning brush 39 is being controlled by a motor 41. In addition, the brush 39 is operated during a first/ active mode when it is spaced from the rotary member 9, and during a second (passive) mode when the brush 39 is bearing against the rotary member 9 and rolls with the rotary member (driven by rotary member) 9 (cols. 4-5). There is a mechanism for pushing the brush toward and spacing from the rotary member 9 (col. 5, line 14). This would imply that the mechanism pushes the brush in at some depth (amount of push)  $p$ . There is, inherently, some controlling device/ controller to control the brush rotation. It is inherent, that the cumulative number of rotations of the rotary brushes in the first mode is executed before the number of rotations of the rotary brushes in the second mode exceeds a prescribed/ desired number of rotations, in order the device to operate properly and according to a desired program. There is only a specific component (developer) makes/ forms images, while the other components device do not make images.

Although Shinohara discloses a controller to control the brushes' rotational operations, Shinohara does not teach to count a number of rotations of the rotary brush.

Boomgaarden discloses a device in the field of applicant's endeavor wherein, a controller comprising an input setting for controlling brush rotation rate. This would imply, that the brush rotation rate, (and thus, number of rotation related to the rotation rate by time) should be determined/ calculated/ counted/ measured. Therefore, the controller is also acting as a rotation/ rotation rate counter.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the controller, disclosed by Shinohara, so as to make it also calculate the rotation rate (number of rotations per time unit), as taught by Boomgaarden, in order to adjust the brush for wear and preserve its life, as already suggested by Boomgaarden.

#### ***Response to Arguments***

14. Applicant's arguments filed January 19, 2006 have been fully considered but they are not persuasive. Applicant states that presented by the Examiner paragraph of "obviousness" is not appropriate. Applicant refers to paragraphs [0118] and [119] for criticality of the particular ranges of the push and nip. This argument is not persuasive, because after the Examiner thoroughly reviewed the above-mentioned paragraph and the table on Fig. 12, the Examiner found that the data on Fig. 12 is found/ can be found by routine experimentation.

#### ***Conclusion***

**15. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in the PTO-892 and not mentioned above disclose related devices and methods.

**Hayakawa et al. U.S. 5563691** disclose in Fig. 7 an image-forming device comprising a rotary member, a rotary cleaning member (brush) 21, an electric potential applying member 14.

**Draugelis et al. U.S. 3841751** disclose in Fig. 1 a device comprising a plurality of developing devices 17-19 and a plurality of brushes 39-40 and a photosensitive element (rotary member) 13.

**Ikunami et al. U.S. 5648840** disclose in Fig. 1 an image forming apparatus comprising an image forming body (rotary member) 1, a conductive brush is pressed against the rotary body during an active/ first mode.

**Seanor (U.S. 4457615)** discloses in Figs. 1-3 a device in the field of applicant's endeavor comprising two brushes being combined charging and cleaning brushes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gail Verbitsky whose telephone number is 571/ 272-2253. The examiner can normally be reached on 7:30 to 4:00 ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571/ 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GKV

*Gail Verbitsky*  
Primary Patent Examiner, TC 2800



March 23, 2006